

ABSTRACT OF THE DISCLOSURE

A device is provided for measuring temperature in molten metals with an optical fiber.

The optical fiber is connected directly or indirectly to a measurement instrument and is held by a carrier. The immersion end of the fiber is fed through a body that can be consumed in the metal

5 melt. The consumable body exhibits a consumption rate of at most 10 cm/min, and the consumption rate is approximately equal to or greater than the rate at which the structure of the optical fiber is destroyed.